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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/602,937	06/24/2003	Nicholas A. Oleksinski	03-0228	1794
24319	7590	04/07/2004	EXAMINER	
LSI LOGIC CORPORATION			TAT, BINH C	
1621 BARBER LANE			ART UNIT	
MS: D-106 LEGAL			PAPER NUMBER	
MILPITAS, CA 95035			2825	

DATE MAILED: 04/07/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

10/602,937

Applicant(s)

OLEKSINSKI ET AL.

Examiner

Binh C. Tat

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 24 June 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-20 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 24 June 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
• Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_

DETAILED ACTION

1. This office action is in response to application 10/620285 filed on 06/24/03.

Claims 1-20 remain pending in the application.

***Claim Rejections - 35 USC § 102***

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1-20 are rejected under 35 U.S.C. 102(b) as being anticipated by Ginetti et al.

(U.S Patent 5825658).

4. As to claims 1, 14, and 20 Ginetti et al. teach a method for generating a plurality of timing constraints for a circuit design, comprising the steps of: (A) identifying a plurality of clock signals by analyzing said circuit design (see fig 1 col 2 lines 23-61); (B) determining a plurality of relationships among said clock signals (fig 1-5 col 2 lines 23-61 and col 3 lines 16 to col 4 lines 64); and generating said timing constraints for said circuit design in response to said clock signals and said relationships (fig 1-5 col 4 lines 65 to col7 lines 8 and summary and col 9 lines 60 to col 10 lines 44).

5. As to claim 2, Ginetti et al. teach wherein said plurality of clock signals comprises a test clock signal (fig 1-5 col 2 lines 23-61 and col 3 lines 16 to col 4 lines 64 and abstract and summary).

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6. As to claim 3, and Ginetti et al. teach further comprising the step of: eliminating from said timing constraints each signal connected to an internal mode pin for said circuit design that defines a non-clock signal (col 10 lines 45-67).
7. As to claim 4, Ginetti et al. teach further comprising the step of: eliminating from said timing constraints each signal connected to an external interface for said circuit design that defines a non-clock signal (col 10 lines 45-67).
8. As to claim 5, Ginetti et al. teach wherein step (C) is in further response to a plurality of parameters associated with said clock signals (fig 1-5 col 2 lines 23-61 and col 3 lines 16 to col 4 lines 64).
9. As to claim 6, Ginetti et al. teach wherein at least one of said parameters relates to a test clock signals of said clock signals (fig 1-5 col 2 lines 23-61 and col 3 lines 16 to col 4 lines 64).
10. As to claim 7, Ginetti et al. teach further comprising the step eliminating from said timing constraints each signal for said circuit design that defines a static signal (fig 1-5 col 2 lines 23-61 and col 3 lines 16 to col 4 lines 64).
11. As to claim 8, Ginetti et al. teach wherein step (B) comprises the sub-step of: generating an asynchronous relationship of said relationships between at least two of said clock signals operating asynchronously to each other (fig 1-5 col 2 lines 23-61 and col 3 lines 16 to col 4 lines 64 and col 12 lines 51 to col 13 lines 49).
12. As to claim 9, Ginetti et al. teach wherein step (B) comprises the sub-step of: generating a fastest clock relationship of said relationships between at least two of said clock signals operating at different speeds between two clock boundaries of said circuit design (fig 1-5 col 2 lines 23-61 and col 3 lines 16 to col 4 lines 64 and col 12 lines 51 to col 13 lines 49).

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13. As to claim 10, Ginetti et al. teach wherein step (B) comprises the sub-step 6f: generating a multiplexed clock relationship of said relationships between at least two of said clock signals routable through a multiplexer in said circuit design (fig 1-5 col 2 lines 23-61 and col 3 lines 16 to col 4 lines 64 and col 12 lines 51 to col 13 lines 49).

14. As to claim 11, Ginetti et al. teach wherein step (B) comprises the sub-step of: generating a derivative clock relationship of said relationships between a first of said clock signals that is derived from a second of said clock signals (fig 1-5 col 2 lines 23-61 and col 3 lines 16 to col 4 lines 64 and col 12 lines 51 to col 13 lines 49).

15. As to claim 12, Ginetti et al. teach wherein step (B) comprises the sub-step of: generating a shared structure relationship of said relationships between a test clock signal of said clock signals and a normal clock signal particular structure of said circuit design in different modes for said circuit design (fig 1-5 col 2 lines 23-61 and col 3 lines 16 to col 4 lines 64 and col 12 lines 51 to col 13 lines 49).

16. As to claim 13, Ginetti et al. teach further comprising the step of: writing said timing constraints among a plurality of files (fig 1-5 col 4 lines 65 to col 7 lines 8 and summary and col 9 lines 60 to col 10 lines 44).

17. As to claim 15, Ginetti et al. teach further comprising determining a plurality of relationships among said clock signals, wherein said timing constraints are generated in further response said relationships (fig 1-5 col 4 lines 65 to col 7 lines 8 and summary and col 9 lines 60 to col 10 lines 44).

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18. As to claim 16, Ginetti et al. teach wherein step (B) comprises the sub-step of: querying said user for a frequency parameter of said parameters f for each of said clock signals (fig 1-5 col 2 lines 23-61 and col 3 lines 16 to col 4 lines 64 and col 12 lines 51 to col 13 lines 49).

19. As to claim 17, Ginetti et al. teach wherein step (B) comprises the sub-step of: querying said user for a timing uncertainty parameter of said parameters for each of said clock signals (fig 1-5 col 2 lines 23-61 and col 3 lines 16 to col 4 lines 64 and col 12 lines 51 to col 13 lines 49).

20. As to claim 18, Ginetti et al. teach wherein said circuit design comprises a gate level design (fig 1-5 col 4 lines 65 to col 7 lines 8 and col 9 lines 60 to col 10 lines 44).

21. As to claim 19, Ginetti et al. teach wherein said circuit design comprises a register transfer language design (see col 9 lines 60 to col 10 lines 44).

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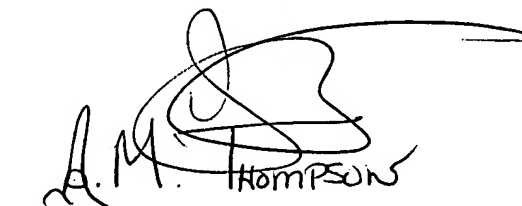
*Conclusion*

22. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Binh C. Tat whose telephone number is (571) 272-1908. The examiner can normally be reached on 7:30 - 4:00 (M-F).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mathew Smith can be reached on (571) 272-1907. The fax phone numbers for the organization where this application or proceeding is assigned are (571) 273-1908 for regular communications and (703) 305-3431 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1782.

Binh Tat  
Art unit 2825  
April 2 2004

  
A. M. THOMPSON  
Primary Examiner  
Technology Center 2825